

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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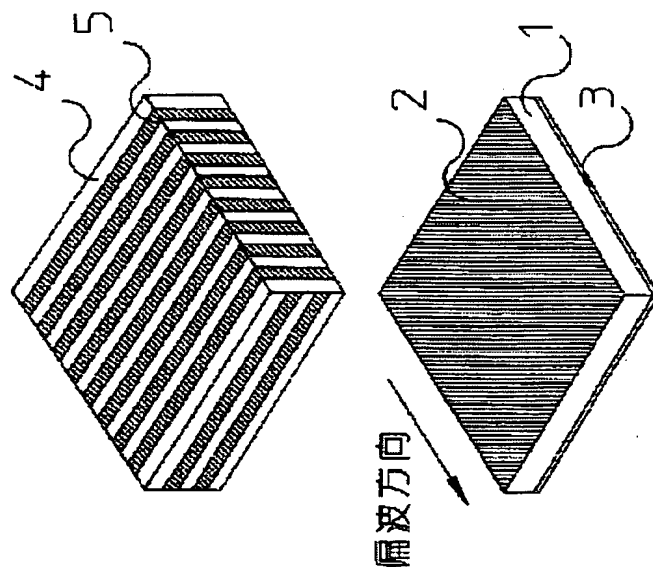
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APPLICANT : HITACHI CHEM CO LTD;

INVENTOR : KANAMARU KIICHI;

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TITLE : PLANAR ANTENNA HAVING  
POLARIZATION GRID, AND ITS  
MANUFACTURING METHOD



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a planar antenna having a strip grid type polarization grid capable of suppressing cross polarization of a wide angle direction and stable cross polarization, and to provide its manufacturing method.

**SOLUTION:** This planar antenna is composed of a planar antenna for emitting linear polarization and a polarization grid consisting of a plurality of strip lines arranged on a flat surface almost parallel to the opening surface of the planar antenna in the direction that directly orthogonal to the polarization direction of the planar antenna. The planar antenna is manufactured by connecting the planar antenna for emitting the linear polarization to the polarization grid through a metal wall provided at the end part of the planar antenna, or by connecting them to each other by bending a metal plate constituting the polarization grid, or by connecting them to each other by etching/removing the unnecessary portion of a conductor stuck onto an insulating base material to form metallic strip lines and connecting the strip lines to the metal wall provided at the end part of the planar antenna for emitting the linear polarization, or by connecting them to each other by bending the metallic strip line.

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